SAFETY DATA SHEET

1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance/mixture:

Name: Potassium Hydroxide 20%

Product code: LMB-14

Abbreviation KOH

Use: Solution designed for the preparation of native biological sample specimens sent to demonstrate dermatophytes.

Company/undertaking identification:

Name: EnviroLab s.r.o.

Address: Galvaniho 7, 821 04 Bratislava

Phone: +421-2-69 307 112 Fax: +421-2-64 774 131

Place of business: Obchodná ulica 7, 946 51 Nesvady

Phone: +421-35-790 29 11

Emergency line:

Organization: National Toxicological Information Center, Limbová 5, 833 05 Bratislava

Phone: +421-2-54 774 166

2 – HAZARD IDENTIFICATION

Classification of the substance or mixture

Skin corrosion / irritation (Category 1A), H314

Acute toxicity (Category 4), H302

Corrosive substance (Category 1), H290

For the full text of the H-statements specified in this section, see Section 16.

Label elements:

Pictogram

Signal word: Danger, Warning

Hazard statements

H314 Causes serious skin burns and eye damage.
H302 Harmful if swallowed
H290 May be corrosive to metals

Precautionary statement(s)

P260	Do not inhale vapors/spray/aerosols.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P270	Do not eat, drink or smoke when using the product.
P234	Keep only in the original container.
P301+P330+P331	Following ingestion: rinse mouth. Do not induce vomiting.
P303+P361+P353	Following skin contact: Remove all contaminated clothing. Immediately rinse the skin with water.
P363	Wash contaminated clothing before use.

P304+P340	Following inhalation: Move the victim to fresh air and keep in a relaxed, motionless position that allows comfortable breathing.
P310	Call the National Toxicology Center or a doctor immediately.
P305+P351+P338	Following eye contact: Gently rinse eyes with water for a few minutes. Remove contact lenses, if possible. Continue rinsing.
P301+P312	If you have any health problems, call the National Toxicology Center or a doctor immediately.
P330	Rinse your mouth.
P302+P352	Following skin contact: Wash with plenty of soap and water.
P390	Absorb leakage to avoid material damage.
P405	Keep locked up.
P406	Store in a corrosion-resistant container.
P501	Dispose of contents/container according to local regulations.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification:	%
019-002-00-8	1310-58-3	215-181-3	Potassium hydroxide	H302 H314 H290	20

For the full text of the H-statements specified in this section, see Section 16.

4 – FIRST AID MEASURES

Following inhalation:

Move the victim to fresh air. Call the doctor.

Following eye contact:

Rinse the eyes with eyelids open under running water for a few minutes. Call an ophthalmologist immediately.

Following skin contact:

Wash the affected areas with plenty of water. Apply polyethylene glycol 400. Remove contaminated clothing. Seek medical help immediately.

Following ingestion:

Let the victim drink water (no more than two glasses). Avoid vomiting (risk of perforation). Get medical help immediately.

5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media:

To extinguish use a snow, foam, water or powder fire extinguisher, depending on the materials stored in the immediate vicinity.

Specific hazards during fire fighting:

Nonflammable.

Special protective equipment for firefighters and firefighting unit equipment:

Do not stay in a hazardous area without an insulating respirator. To avoid contact with the skin, observe a safe distance and wear suitable protective clothing.

Additional information:

Avoid contamination of the surface or groundwater system with water used for fire extinguishing.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with the substance. Do not inhale fumes / aerosols. Provide fresh air supply in confined spaces.

Environmental precautions:

Avoid penetration into the drainage system.

Cleaning methods:

Remove with absorbent material. Send for disposal. Clean the affected area.

7 – HANDLING AND STORAGE

Handling:

Protect from light.

Storage:

Store tightly closed in a well ventilated place. Store at 2 – 8 °C.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Does not contain any substances with occupational exposure limit values.

Personal protective equipment:

For a specific workplace, it is necessary to choose specific work clothes, depending on the concentration and amount of dangerous substances being handled. The resistance of chemical protective clothing must be checked with the supplier concerned.

Hand protection:

Use disposable vinyl gloves.

Eye protection:

Use tightly fitting safety goggles.

Respiratory protection:

Required if vapors / aerosols are formed.

General hygiene:

Immediately replace contaminated clothing. Use a lotion as a protective barrier. After work, wash your hands and face. Work with the suction chamber. Do not inhale the substance.

For more detailed information, see Section 11 – Toxicological Information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

Physical state:	liquid
Color:	colorless
Odor:	odorless
pH value:	14
Boiling point / distillation range:	100 °C

10 – STABILITY AND REACTIVITY

Conditions to be avoided:

No information available.

Substances to be avoided:

Possible violent reactions with: Metals, light metals, ammonium compounds, alkaline earth metals, halogens, halogen compounds, halogenated hydrocarbons, non-metallic oxyhalides, halogen oxides, organic nitro compounds, phosphorus, non-metal oxides, hydrocarbons, anhydrides,strong acids, azides.

Hazardous decomposition products:

No information available.

7 – TOXICOLOGICAL INFORMATION

ATE

LD50 rat

Dose: 1365 mg/kg

Symptoms: Following ingestion – burning of the oral cavity and throat as well as the risk of perforation of the esophagus and stomach.

Acute oral toxicity: Symptoms: burns of mucous membranes.

Skin irritation: causes irritation.

Eye irritation: causes burns / alkali burns.

Additional information:

Observe the principles of good industrial hygiene and occupational safety.

8 – ECOLOGICAL INFORMATION

Ecotoxicity:

Fish toxicity

LC50

Species: Gambusia affinis

Dose: 400 mg/l

Exposure time: 96 hrs

(external safety data sheet)

Other ecological data:

Harmful effect due to pH shift. Prevent penetration into water, sewage and soil!

9 – DISPOSAL MEASURES

Product:

The product is hazardous waste and must be disposed of in accordance with valid legislation.

Packaging:

The product packaging must be disposed of in accordance with applicable legislation.

10 – TRANSPORT INFORMATION

Land transport: ADR, RID

UN 1814 POTASSIUM HYDROXIDE, SOLUTION, 8, III

River transport: ADN, ADNR

not tested

Maritime transport: IMDG-Code

UN 1814 POTASSIUM HYDROXIDE, SOLUTION, 8, III

Air transport: CAO, PAX

UN 1814 POTASSIUM HYDROXIDE, SOLUTION, 8, III

The transport regulations are cited in accordance with international regulations and are in a form applicable in the Slovak Republic. Possible national variations in individual countries are not considered.

11 – REGULATORY INFORMATION

12 – OTHER INFORMATION

Full text of H-data used in the Safety Data Sheet:

H314 Causes serious skin burns and eye damage.
H302 Harmful if swallowed
H290 May be corrosive to metals

The information provided in this Safety Data Sheet is based on the current state of our knowledge.
It characterizes the product with respect to the adequate safety precautions. It does not represent any guarantee of the product's properties.